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Your attention is called to the fact that we have just received, by last boat from the Coast, a large shipment of the best PORTO RICO HATS. Regular price, \$5; reduced to \$2.50. THE LEADING HAT CLEANERS No. 20 Beretania St., nr. Nuuanu Ave. FELIX TURRO, Specialist

BY AUTHORITY.

MAUI LOAN FUND COMMISSION.

Sealed Tenders will be received at the office of the Maui Loan Fund Commission, at Walluku, Maui. T. H., until Saturday, September 14, at 10 o'clock a. m., for constructing, and furnishing all labor, tools, equipment and material, except all pipe and fittings, necessary to construct, in accordance with the plans and specificaapproximately 500,000 gallons.

Plans and specifications and other information may be had upon application to the Maui Loan Fund Commission, or at the office of the Superintendent of Public Works, at Honolulu.

The right is reserved to reject any and all bids.

Tenders must be made on forms furnished by the Maui Loan Fund Comder.

W. F. POGUE, Vice Chairman, Maui Loan Fund Com-5312-4w

MAUI LOAN FUND COMMISSION.

Sealed Tenders will be received at the office of the Maui Loan Fund Commission, Wailuku, Maui, T. H., until 10 o'clock a, m., Saturday, September 14, for constructing a One-Story Frame Building to be used as a schoolhouse plans and specifications, and under the supervision of the Maui Loan Fund

formation may be had upon applica- by Section 9, Act 163 of the Session tion to the Maui Loan Fund Commission or at the office of the Superintendent of Public Works, at Honolulu,

The Maui Loan Fund Commission reserves the right to reject any and Tenders must be made on forms furnished by the Maui Loan Fund Com-

a certified check in amount equal to 5% of the tender. W. F. POGUE. Vice Chairman, Maui Loan Fund Com

mission, and must be accompanied by

MAUI LOAN FUND COMMISSION

Sealed Tenders will be received a the office of the Maul Loan Fund Commission, at Wailuku, Maui, T. H., until Saturday, September 14, at 10 o'clock a. m., for constructing a road, laying macadamized pavement, and furnishing all labor, tools and material for constructing approximately 20,000 feet of roadway from Makapipi Guich to Waialuaiki, on the Maui Belt Road System.

Plans, specifications, etc., and other information may be had upon application to the Maui Loan Fund Commission, or at the office of the Superintendent of Public Works, at Hono-

The right is reserved to reject any a certified check amounting to not less than 5% of the amount of the

W. R. POGUE, Vice Chairman, Maui Loan Fund Com-

POLITICAL NOTICES.

REPUBLICANS OF FIRST PRE-CINCT, FOURTH DISTRICT.

Attention

A new enrollment of the Republican Club, First Precinct, Fourth District, is being made. All persons eligible as voters are requested to enroll without ielay. The roll may be found at the club headquarters in the Kaimuki Mercantile Co.'s building, and will be pened from 8 p. m., Friday, August 23, 1912, and thereafter daily between the hours of 7:30 and 9 p. m., unil Friday, the 6th day of September, at 10 o'clock p. 1a.

By order of Enrollment Committee. DANIEL LOGAN, Chairman.

F. H. KILBEY,

CORPORATION NOTICES.

SPECIAL MEETING NOTICE. Kohala Sugar Company.

Notice is hereby given that a special meeting of the shareholders of the Kohala Sugar Company will be held at the office of Castle & Cooke, Limited, in Honolulu, on Monday, September 9, 1912, at 9 o'clock a. m. At said meeting proposed amend ments to the By-Laws of the company will be offered for consideration.

T. H. PETRIE, Secretary, Kohala Sugar Company. Honolulu, August 24, 1912. 5324-12t

BUSINESS NOTICES.

NOTICE.

Jacob Ordenstein will act for me in all matters, with my full power of attorney. (Signed) M. E. SILVA.

5315-1m

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BY AUTHORITY.

REGULATIONS GOVERNING THE DISCHARGE OF NITRATE OF SODA, SULPHUR AND OTHER SIMILAR MATERIALS UPON THE WHARVES OF THE TERRITORY OF HAWAII, AS AMENDED AU-GUST 28, 1912.

21. No nitrate of soda, sulphur, or other similar materials shall be stored, awaiting transportation, upon any wharf within the Territory of Hawait, tions, a reservoir at Keokea, Kula, Is- unless the same be packed in sound land of Maui, T. H., of a capacity of and non-leaky containers. All nitrate of soda, sulphur or other similar materials so stored shall, at the expense of the consignee, be under the continuous care of a competent watchman until removed.

Masters, owners and consignees of nitrate of soda cargoes, sulphur or other similar materials must keep the wharf at all times swept clean and free of any loose nitrate of soda, sulphur or other similar materials during mission, and must be accompanied by the entire process of unloading and a certified check amounting to not removing the cargo. No loose nitrate less than 5% of the amount of the ten- of soda, sulphur or other similar materials will be permitted to be landed. In all cases nitrate of soda, sulphur or other similar materials must be landed from ships in sound containers.

During the process of discharging or removing said cargoes, it shall be obligatory on the part of the ship or the hard rocks along the seashore, the agents of said vessel, to provide water fragments of which, dislodged by the containers of not less than fifty (50) gallons each at intervals of not less than fifty (50) feet apart with suitable buckets placed alongside each container; said containers to be filled at Hana, Maui, T. H., to be built for with a solution of water and nitrate the Territory of Hawaii, according to of soda to be used in the case of fire. Any person or persons who snall violate the above Regulation shall be guilty of a misdemeanor and shall be Plans, specifications and other in- subject to the penalties as provided

MARSTON CAMPBELL, Chairman, Board of Harbor Commis

EMIL A. BERNDT. Secretary, Board of Harbor Commis-Adopted by the Board of Harbor Commissioners on August 28, 1912.

LEGAL NOTICES.

5327-30t

5312-4W IN THE CIRCUIT COURT OF THE

OAO BORGES, Plaintiff, vs. JACIN-THA DE JESUS BORGES, JACIN-THA BOTEILHO BORGES, MARIA AMARAL: JOSE BORGES, LUZIA BORGES, MANOFL BORGES, MA-NOEL AMARAL and JOHN AMA-RAL by F. SCHNACK their guardian ad litem, MARIA MEDEIROS; MARIE REIS, FRED REIS, JOHN REIS, LOUIZ REIS, GEORGE REIS, AND ADELINE REIS, by MARIE REIS, their guardian ad litem, De-

The Territory of Hawaii; of Hawaii, or his Deputy; the Sheriff of the City and County of Honolulu

or his Deputy: You are commanded to summon Jacintha de Jesus Borges, Jacintha Bo-Tenders must be made on forms fur- thellho Borges, Marie Amaral, Jose Borges, Luzia Borges, Manoel Borges, mission, and must be accompanied by Manoel Amaral and John Amaral by F. Schnack, their guardian ad litem, Maria Medeiros; Marie Reis; Fred Reis, John Reis, Louiz Reis, George Reis and Adeline Reis by Marie Reis, their guardian ad litem, to appear ten 5312-4w days after service hereof, if they reside in the City and County of Honolulu, otherwise twenty days after service, before such Judge of the Circuit Court of the First Circuit as shall be sitting at Chambers in the courtroom of said Judge, in the Judiciary Building, in Honolulu, to answer the annexed Complaint of Joao Borges.

with full return of your proceedings Witness the Honorable W. J. ROB-INSON, Third Judge of the Circuit

Court of the First Circuit, at Honolulu aforesaid, this 4th day of April, 1911. HENRY SMITH. original Summons which is now file in the office of the Clerk of the

Circuit Court of the First Judicial

Circuit of the Territory of Hawaii in

a cause entitled Joao Borges vs. Jacin-

ha de Jesus Borges et al. Dated, Honolulu, July 18, 1912. J. A. DOMINIS, Clerk, Circuit Court, First Circuit, 5291-3m-Thur

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Benjamin Franklin began to save his pennies. The business he started on those pennies is still flourishing today.

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Bank of Hawaii, Ltd. Capital-Surplus, \$1,200,000

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moves the cause. Used the world over to cure a cold in one day. E. W. GROUT'S signature on each box, Made

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Home Course Road Making

> IX.-The Gravel Road.

By LOGAN WALLER PAGE, Director Office of Public Roads. United States Department of Agriculture.

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RAVEL may be defined as mass of small fragments of less rounded through the action of water and which have been deposited by the same agency along sluggish river channels or about the margins of lakes or other bodies of water. It may have been formed from elements, fall into the water and are washed back and forth through the action of the waves, gradually becoming rounded and smaller. .

In the New England states and other of the states lying north of the Potomac and Ohio river region gravel



POORLY BUILT GRAVEL ROAD.

pits, which are frequently termed gis cial gravels on account of their direct or indirect association with ice action. are quite widely distributed, and these have been and may be used to a To the High Sheriff of the Territory greater or less extent in road improve-

ment. During recent mological history of the continent the Atlantic and gulf borders have been submerged at intervals. The ocean has advanced inland a number of times. During each of these periods of continental submergence the harder rock remanents along the inner margins of the ocean's advance have been rounded, worn down, deposited and redeposited with varying proportions of sands and loams and clays, thus forming beds of gravel, which are today available for road

building purposes. Gravel roads and macadam roads alike have often received sweeping condemnations as unsatisfactory when the cause of failure was poor construction and not the character of the material And have you then there this Writ used. The need of care in grading and drainage in the construction of macadam roads is being quite generally recognized, but unfortunately many amateur road builders seem to think that gravel roads may be constructed by simply piling gravel on the surface and leaving it to be packed by the passing I hereby certify that the foregoing is traffic. In point of fact, the grading full, true and correct copy of the and drainage and other details in connection with the construction of a gravel road should be done with as much care and thoroughness as in the case of a macadam road. Moreover, in the one case as in the other specifications must be adapted to varying local. conditions. Of course, the gravel itself must be selected with care. That which contains a sufficient quantity of binding material so that it stands as a vertical wall when it is being excavated is generally the best, for the reason that this same binding material will re-cement the gravel when used for

road building. There are three important qualities which should be possessed by road building gravel-hardness, toughness and cementing or binding power. Of these three qualities the last is the most important. This binding quality is due in part to the presence of oxide of iron, lime or ferrugineous clay and in part to the angular shape and size of the pebbles composing the gravel. Blue gravel is universally conceded to be the best for road construction, because it is usually derived from trap rock. As the pebbles composing the gravel retain the characteristics which they formerly possessed as a part of the larger rock itself, it follows that as trap rock is considered an excellent material for road building, trap rock gravel should occupy the same relative rank among the gravels. Limestone is, generally speaking, a soft rock, and consequently limestone gravel, which is quite rare, will usually be found soft and will wear rapidly. Quartz possesses practically no binding power, In order that the material may blud rock screenings. readily the pebbles should be angular. The split leg drag or some similar aforesaid, described in Apana I, Award : Approved this 3rd day

tained from streams is usually inferior tion of the water has worn the pebbles smooth and practically all the fine binding material has been removed by such cases it is sometimes advisable to screen the gravel so as to eliminate the material which is too fine or that which is too coarse. The screen should be similar to that which is used in preparing material for a macadem road. In the handling of the gravel care Ltd., Honolulu, on should be exercised not to separate the | SATURDAY, OCTOBER 5, 1912, binding material from it, nor should at 12 o'clock noon of said day. material over the road surface. It purchaser, a thin layer of such binding material over the surface after the material has

still damp from the rains.

the Atlantic coastal plane is sufficient- | nua, conveyed to C. E. Cummings by ly fine and uniform to render unneces- deed of T. B. Cummings dated July sary any assorting for road building 30, 1891, recorded in Liber 84, page purposes, but when the gravel, espe- 228. cially that which is to constitute the surface layer, contains large pebbles these should be removed and either foundation or recrushed. At least 60 ed in Liber 130, page 364. per cent by weight of the gravel should | 3. Land at Kaluaauau, Kalihi aforethe bottom layer that will not pass to Richardson, conveyed to Clarissa through a two and a half or three tuch E. Cummings by deed of James I. ring, and in the top layer there should Dowsett dated August 1, 1893, recordbe no pebbles which will not pass ed in Liber 141, page 352. through a one and one-half inch ring. Not over 20 per cent of the mass should be clay, and this should be uniformly mixed and should contain no Clarissa E. Cummings by deed of Adelarge lumps. Ten or 15 per cent of clay lia C. Widdifield dated March 16, produces better results than 20 per cent. 1895, and recorded in Liber 152, page If the foundation or roadbed is loose 493. it should be carefully rolled. It is quite as important to have a solid taining an area of 3.43 acres, bein foundation for a gravel road as for a the land described in Grant 2919, and dam road. Gravel will com to about 80 per cent of its depth, loose measure, provided earth shoulders are 495. placed on both sides of the road to 6. Premises at Kalihi aforesaid, le prevent the wasting away of the or the read may be surfaced with gravel from shoulder to shoulder. If the compacted depth of the gravel road is to be eight inches and the width twelve feet it will take about 2.250 cubic yards of gravel to the mile. and it is best to make the first layer about six inches in depth, loose measure, and the second layer about four Seventeen and Eighteen of p inches in depth, loose measure.

Gravel should not be dumped directly on the road, as this will usually result in a rough, uneven surface. If specially devised spreading wagons are not used the gravel should be dumped on boards and spread from

them on to the road." The gravel should be placed on the road commencing at the end nearest mings by deed of Andre Antone De the gravel pit, in order that the teams, Cruz dated January 6, 1898, recorded will aid in packing the material. A in Liber 177, page 53. spike or tooth harrow may be used to advantage in spreading the material. but if the gravel contains only a small amount of binding material the harrow should not be used, as it will have the effect of bringing the larger pebbles to the surface and shaking the aforesaid, situated on the Ewa si binding material to the bottom.

Each layer of gravel should be rolled separately. The rolling should begin at the sides and continue toward the center ifatil the surface is thoroughly compacted. The surface layer should



A PROPERLY CONSTRUCTED GRAVEL BOAD,

be sprinkled while the rolling is in progress, but if a roller and sprinkler Cummings by deed dated April 27, son, whose salary shall b are not available the road should be 1898, recorded in Liber 177, page 436, said Board, to be known constructed if possible in the spring of containing 1.10 acres, being part of tary to the Board of Su the year, as the successive rains will Award 1360, Royal Patent 720. cause the material to pack much better ! than if the roall were built in the dry

hot summer or early fall, If the gravel is lacking in snitable binding material and clay or loam is available a limited quantity of such material may be spread over the surface. The clay should be used very sparingly, however, as it absorbs wa- of 3.38 acres, being a portion of land Mayor of the City and Cot ter and causes the road to become soft described in Award 1274, Royal Pat- nobulu, the members of the and muddy in wet weather and dusty ent 4932, and the same land conveyed Supervisors of said City a in dry weather. When the clay dries to W. H. Cummings by deed dated Oc- of Honolulu and the officers it contracts and causes the road to tober 9, 1897, recorded in Liber 173, ous employes of the depart crack. Clay is also affected by frost. page 167. although it is very hard. Therefore The same may be said of loam. The gravel which contains an exception-best bluder of all is iron oxide, which Award 5364, Royal Patent ter the date of its approval ally large percentage of quartz will not is frequently found coating the pebbles. 3579, containing an area of three acres, prove successful, as it will fail to con- Very satisfactory results may be ob- conveyed to W. H. Cummings by deed solidate unless it contains binding ma- taited by surfacing the gravel road of Akiune dated August 6, 1898, re-LAXATIVE BROMO-QUININE, resterial, or unless a good binder is added, with a thin layer of limestone of trap- corded in Liber 183, page 300.

and should vary in size so that the device may be used to good advantage 1275, Royal Patent 4634, containing ber, A. D. 1912. smaller fragments may fill the voids to maintaining the gravel road,

LEGAL NOTICES

setween the larger pieces. Gravel obto pit gravel for the reason that the ac- GUARDIAN'S SALE OF REAL ES-

In accordance with a certain order the same agency. Even if clay or loam made by the Honorable Wm. L. Whitis mixed with river or creek gravel the ney, Second Judge of the Circuit Cummings dated July 30, result is not likely to be as satisfactory Court of the First Circuit, Territory as that obtained by the use of pit grav- of Hawaii, on the 29th day of Auel. Pit gravel frequently contains too gust, A. D. 1912, in the proceedings much clay or earthy matter, while river entitled, "in re Guardianship of Ergravel may have too much sand. In nest Cummings, a minor, Petition for License to Sell Minor's Real Estate";

NOTICE IS HEREBY GIVEN that the real estate belonging to said minor, and more particularly hereinafter described, will be sold at public auction to the highest bidder at the auction rooms of Jas .F. Morgan Co.,

this binding material be allowed to! Terms: Cash in United States gold settle to the bottom in spreading the coin; deeds at the expense of the

will often be found advisable to spread | The property to be sold as aforesaid consists of all the right, title and interest of said minor, being an undivided one-eighth interest in and to all been distributed and rolled, and after

the lands situated in the Territory of this the surface should be sprinkled Hawaii, described as follows: and rolled again or else rolled while 1. Land at Mokauea, Kalihi, Honolulu, being a portion of Apana 4. A large part of the gravel found in Award 6450 to Kaumohua for Moefic-

ing an area of 6290 square feet, being a portion of Apana 4, Award 6450, conveyed to W. H. Cummings by deed thrown aside or else raked into the of Kapule dated May 23, 1891, record-

be pebbles above one-eighth inch in said, containing an area of 4.2 acres. size, and there should be no pebbles in being a part of Apana 1, Grant 2924

4. Land at Keonepanee, Kalihi aforesaid, containing an area of 7.69 acres, being Apanas 1 and 2 of Grant 2921 to Joseph Silva and conveyed to

5. Land at Kalihi aforesaid, con conveyed to Mrs. C. E. Cu

scribed in L. C. A. 10498, R. P. 3546, gravel on the sides. If gravel is abundand conveyed to C. E. Cummings by dant, however, these shoulders may be deed of Lau Chong dated January 17, built of gravel instead of with earth, 1895, recorded in Liber 152, page 287, and by deed of Bruce Waring & Co. dated May 6, 1895, and recorded in Liber 154, page 306, and conveyed Achi dated January 30, 1891, and recorded in Liber 195, page 382. T. Land on Kamehameha IV Road

Kaluaopalena, Kalihi aforesaid, known as Lots Three, Four, Fifteen, Sixteen described in Royal Patent 681, L. C. A. 1204 to Kahola, and being a portion of the land conveyed to W. H. Cummings by William C. Achi by deeds dated January 19, 1899, and March 24, 1899, and recorded in Liber 191, page

1, and 194, page 53. 8. Land at Kalihi aforesaid, de scribed in Award 85 F. L., Royal Patent 2076 conveyed to W. H. Cum

9. Land on N. King Street, Hono lulu aforesaid, being Apana 1, Royal Patent 1226, Award 933 conveyed to Clarissa E. Cummings by K. H. Kalekou by deed dated October 20, 1893, recorded in Liber 141, page 455.

10. Land in Palama, Honolul of Asylum Road near N. School Stree known as Lots Two, Four, Five and Six in Block A and Lots Eight to luth Tract as shown in map of Robert W. Wilcox on file in the Circuit Court of the First Circuit in suit of Lyle A. Dickey vs. William C. Cummings, et al., Equity No. 1485, being a portion of the land described in Royal Palent 6967, Award 4034 to R. G. Davis and conveyed to William H. Cummings by deed of John Emmeluth dated August 9, 1899, recorded in Liber 195, page

11. Land at Kanewai, Manoa, Honolulu aforesaid, containing an area of 7.44 acres, being the land described in Royal Patent 4972, Award 1748 to Ong, conveyed to W. H. Cummings by deed of D. Puhi dated October 19, 1899, recorded in Liber 200, page 150, 12. An undivided one-fifth interest

in Grant 3693 to Kaluawaa, Manoa, Honolulu aforesaid. 13. Land at Kapaakea, Walkiki, Honolulu aforesaid, conveyed to William H. Cummings by deed of Samuel M. Kaaukai and Jane C. Kaaukai dated January 13, 1898, recorded in Liber 177, page 98, being a portion of premises described in Apana 4, Royal Patent 3829, Royal Patent 6658, Award

14. Land at Kiki, Kamoiliili, Ho- nolulu, Territory of Hawaii, nolulu aforesaid, conveyed to W. H. authorized to appoint a s

3.53 acres at Waiaka, Waikiki, Hono- pervisors each week to lulu aforesaid, being a portion of statement of the work of Award 9001, Royal Patent 4184, de- departments of the City 1 scribed in deed to W. H. Cummings of Honolulu and of the dated January 29, 1898, recorded in pervisors, and deposit in the Liber 176, page 268. 16. Land at Piliamoo, Walkiki, Ho- as practicable, at least t

noluly aforesaid, containing an area of such statement for the 17. Land at Maulukikepa, Kamoili-

18. Land at Kamoilifli, Honolulu D. 1912.

March 30, 1899, recorded page 213. 19. Land at Pelekunu, lokal, County of Maul, Royal Patent 5549, Awa Pehi, containing an area 2 roods, 10 perches, conver

issa E. Cummings by land and County of M 10, 1899, recorded in Liber 344, being part of the land

in Apana 4, Royal Patent scribed in Award 6408. 1723, conveyed to Clari mings by deed of H. N.

ed December 6, 1894, re 152, page 259. 5483, Royal Patent 6 27% rods, conveyed t

1891, recorded in Liber 23. Land at Kaupo, described in Apana 1 3062, conveyed to Cla mings by deed dated O recorded in Liber 133,

J. ALFRED Guardian of Ernes

For further particular W. Aluli, attorney for goon, guardian, Magoon ner of Alakes and Me

No. 232. TERRITORY PERRITORY OF HA CARTER; MALIA TORY OF HAWAIL ndsay, Jr., Att Marston Campbe TRUSTEES OF T

ented to said Court PO HUMPHREYS

You are hereby

WHITNEY, Judge of 14th day of August, in teen hundred and twelve. Attest with Seal of sa

(Seal) JOHN MARCA 5315-Aug 15, 22, 29

ORDINANCE NO. N ORDINANCE AUT THE BOARD OF OF THE CITY AND HONOLULU TO AP RETARY TO THE BOA PLUVISORS AND TO SALARY, AND PRESC DUTIES OF SUCH

Be it Ordained by the P City and County of H SECTION 1. The Board visors of the City and Co 15. Four lots containing an area of of said Secretary to the B the City and County Clerk

> Introduced by Date of Introduction:

said City and County.

SECTION 3. This Ordin

five lots, being a portion of land conveyed to W. H. Cummings by deed of 5333-3t